Algebra IA & B

MA.05.AEE.01.02
Understands the process for solving multi-step equations (using algebraic properties).

Understands the process for solving multi-step inequalities (using algebraic properties).

Is skilled at constructing equations and inequalities from real world situations

→

MA.02.AIF.01.02
Understands how to describe qualitatively the functional relationship between two quantities by analyzing a graph

Understands how to compare two linear functions (i.e. rate of change, etc.) with the same representation (algebraically, graphically, numerically in tables or by verbal description)

→

MA.02.ABS.01.01
Understands that a function models a relationship between two quantities

→

MA.09.SDA.01.01
Understands how to use data from a random sample to draw inferences about a population with an unknown characteristic of interest.

Understands how to make informal comparative inferences about two populations

→

MA.10.SDA.01.01
Is skilled at constructing and interpreting scatter plots between two sets of linked data.

Understands to use the equation of a linear model to solve problems in the context of bivariate measurement, interpreting the slope & intercept

→

MA.06.AEE.01.02
Understands the process for solving systems of two linear equations through substitution or cancellation (elimination) with one solution, no solution or infinitely many solutions

Understands how to solve systems of equation word problems that model real-life situations

→

MA.07.AEE.01.01
Understands the process for performing operations on polynomials (add, subtract, multiply)

→

MA.02.SPP.02.02
Understands when two events A and B are independent.

→

MA.03.SPP.01.02
Is skilled at using the rules of probability to compute probabilities of compound events

Is skilled at calculating expected values.

Is skilled at using probability to evaluate outcomes of decisions.

Geometry

MA.03.GCS.01.02
Is skilled at using coordinates to prove simple geometric theorems algebraically (e.g., Pythagorean Theorem)

Is skilled at using coordinates to find perimeter of polygons and areas of triangles and rectangles

→

MA.09.GAP.01.02
Understands logical multi-step reasoning to prove theorems about triangles, lines & angles, and parallelograms

Is skilled at proving theorems involving similarities of triangles

→

MA.09.GME.01.02
Is skilled at finding volume of cubes, prisms, pyramids, cones, cylinders, spheres

Is skilled at finding surface area of prisms, cylinders, and pyramids

→

MA.10.GAP.01.01
Is skilled at using trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems

→

MA.11.GAP.01.01
Is skilled at describing relationships among inscribed angles, radii, chords, arc lengths, and areas of sectors of circles

Algebra 2A & B

MA.08.NQN.01.02
Understands the properties of rational exponents

→

MA.08.AEE.01.02
Understands that quadratic expressions can be written in equivalent forms to reveal and explain algebraic properties (through factoring and expansion)

Understands how to construct a quadratic equation and use it to solve (through factoring, quadratic formula, and technology) a real-life situation

→

MA.09.NQN.01.01
Understands the concepts of an imaginary number system

Understandss that there is a number system beyond the real number system

→

MA.03.AIF.02.02
Understands how to read/use function notation, how to evaluate functions for inputs in their domains, and how to interpret function notation in terms of a context

Understands how to interpret the key features of graphs and tables for a functional relationship between two quantities.

→

MA.04.AIF.01.02
Understands the relationship between the equations and the graphs of linear, quadratic, square root, and absolute value functions.

→

MA.03.ABS.01.01
Understands that new functions can be created from existing functions

→

MA.11.SDA.01.01
Understands how to use statistics appropriate to the shape of the data distribution

Understands how to use the mean and standard deviation of a data set to fit a normal distribution and to estimate the population percentages.

Adopted 5/23/12